Author Index

Altschuler, R.A., see Shore, S.E. (52) 255
Altschuler, R.A., see Zajic, G. (52) 59
Andersson, S.E., see Hillerdal, M. (52) 321
Aran, J.-M., see Décory, L. (52) 81
Avan, P., Bonfils, P., Loth, D., Narcy, P. and Trotoux, J.
Quantitative assessment of human cochlear function by evoked otoacoustic emissions (52) 99

Backoff, P.M., see Clopton, B.M. (52) 329
Barlow, E.K., see Berlin, C.I. (52) 271
Berlin, C.I., Hood, L.J., Barlow, E.K., Morehouse, C.R. and Smith, E.G.
Derived guinea pig compound VIIIth nerve action potentials to continuous pure tones (52) 271
Bernstein, L.R.
Measurement and specification of the envelope correlation between two narrow bands of noise (52) 189
Bledsoe, Jr., S.C., see Shore, S.E. (52) 255
Bobbin, R.P., see Pou, A.M. (52) 305
Boersma Anderson, C.A., see Faingold, C.L. (52) 201
Bonfils, P., see Avan, P. (52) 99
Booth, J.C. and Cramb, D.A.
Threshold integration of bi-amplitude signals (52) 312

Campo, P., see Subramaniam, M. (52) 181
Carey, T.E., see Zajic, G. (52) 59
Caspary, D.M., see Faingold, C.L. (52) 201
Castañeyra-Perdomo, A., see González-Hernández, T.H. (52) 17
Clopton, B.M. and Backoff, P.M.
Spectrotemporal receptive fields of neurons in cochlear nucleus of guinea pig (52) 329
Corwin, J.T., see Cotanche, D.A. (52) 379
Cotanche, D.A. and Corwin, J.T.
Stereociliary bundles reorient during hair cell development and regeneration in the chick cochlea (52) 379
Cramb, D.A., see Booth, J.C. (52) 312
Cynader, M.S., see Zakarauskas, P. (52) 233
Czibulka, A. and Schwartz, I.R.
Neuronal populations in the gerbil PVCN: Effects of age, hearing status and microcysts (52) 43

Dallos, P., see Evans, B.N. (52) 288
Décory, L., Hiel, H. and Aran, J.-M.
In vivo noise exposure alters the in vitro motility and viability of outer hair cells (52) 81
Després, G., Hafidi, A. and Romand, R.
Immunohistochemical localization of nerve growth factor receptor in the cochlea and in the brainstem of the perinatal rat (52) 157
Dulon, D., Zajic, G. and Schacht, J.
Differential motile response of isolated inner and outer hair cells to stimulation by potassium and calcium ions (52) 225

Ehrenberger, K. and Felix, D.
Glutamate receptors in afferent cochlear neurotransmission in guinea pigs (52) 73
Evans, B.N., Hallworth, R. and Dallos, P.
Outer hair cell electromotility: The sensitivity and vulnerability of the DC component (52) 288

Faingold, C.L., Boersma Anderson, C.A. and Caspary, D.M.
Involvement of GABA in acoustically-evoked inhibition in inferior colliculus neurons (52) 201
Fallon, M., see Pou, A.M. (52) 305
Felix, D., see Ehrenberger, K. (52) 73
Ferres-Torres, R., see González-Hernández, T.H. (52) 17

Galindo-Mireles, D., see González-Hernández, T.H. (52) 17
Godfrey, D.A., see Shore, S.E. (52) 255
González-Hernández, T.H., Galindo-Mireles, D., Castañeyra-Perdomo, A. and Ferres-Torres, R.
Divergent projections of projecting neurons of the inferior colliculus to the medial geniculate body and the contralateral inferior colliculus in the rat (52) 17
Gower, D.J., see Neely, J.G. (52) 403
Gray, L., see Schneider, I. (52) 281

Hafidi, A., see Després, G. (52) 157
Hallworth, R., see Evans, B.N. (52) 288
Hashino, E., Tanaka, Y. and Sokabe, M.
Hair cell damage and recovery following chronic application of kanamycin in the chick cochlea (52) 356
Heffner, H.E., see Heffner, R.S. (52) 13
Heffner, R.S. and Heffner, H.E.
Behavioral hearing range of the chinchilla (52) 13
Helfert, R.H., see Shore, S.E. (52) 255
Henderson, D., see Subramaniam, M. (52) 181
Hiel, H., see Décory, L. (52) 81
Hillerdal, M. and Andersson, S.E.
The effects of calcitonin gene-related peptide (CGRP) on cochlear and mucosal blood flow in the albino rabbit (52) 321
Hood, L.J., see Berlin, C.I. (52) 271

Horner, K.C.
Old theme and new reflections: Hearing impairment associated with endolymphatic hydrops (52) 147

Kim, D.O. and Parham, K.
Auditory nerve spatial encoding of high-frequency pure tones: Population response profiles derived from d′ measure associated with nearby places along the cochlea (52) 167
Klump, G.M. and Okanoya, K.
Temporal modulation transfer functions in the European Starling (*Sturnus vulgaris*): I. Psychophysical modulation detection thresholds (52) 1
Kuijpers, W., Tonnaer, E.L.G.M., Peters, T.A. and Ramaekers, F.C.S.
Expression of intermediate filament proteins in the mature inner ear of the rat and guinea pig (52) 133

Lehtonen, E., see Pirvola, U. (52) 345
Loth, D., see Avan, P. (52) 99

Melssen, W.J., see Van Stokkum, I.H.M. (52) 113
Miller, J.M., see Quirk, W.S. (52) 217
Morehouse, C.R., see Berlin, C.I. (52) 271
Munyer, P.D. and Schulte, B.A.
Immunohistochemical identification of proteoglycans in gelatinous membranes of cat and gerbil inner ear (52) 369

Nair, T.S., see Zajic, G. (52) 59
Narcy, P., see Avan, P. (52) 99
Neely, J.G., Thompson, A.M. and Gower, D.J.
Detection and localization of heat shock protein 70 in the normal guinea pig cochlea (52) 403
Nuttall, A.L., see Quirk, W.S. (52) 217

Okanoya, K., see Klump, G.M. (52) 1

Parham, K., see Kim, D.O. (52) 167
Parks, T.N., see Zhou, N. (52) 195
Peters, T.A., see Kuijpers, W. (52) 133
Pirvola, U., Lehtonen, E. and Ylikoski, J.
Spatiotemporal development of cochlear innervation and hair cell differentiation in the rat (52) 345
Pou, A.M., Fallon, M., Winbery, S. and Bobbin, R.P.
Lowering extracellular calcium decreases the length of isolated outer hair cells (52) 305
Ptok, M., see Zajic, G. (52) 59
Puel, J.-L., see Schrott, A. (52) 245

Quirk, W.S., Shapiro, B.D., Miller, J.M. and Nuttall, A.L.
Noise-induced changes in red blood cell velocity in lateral wall vessels of the rat cochlea (52) 217

Ramaekers, F.C.S., see Kuijpers, W. (52) 133
Rebillard, G., see Schrott, A. (52) 245
Romand, R., see Després, G. (52) 157

Santos-Sacchi, J.
Isolated supporting cells from the organ of Corti: Some whole cell electrical characteristics and estimates of gap junctional conductance (52) 89
Schacht, J., see Dulon, D. (52) 225
Schacht, J., see Zajic, G. (52) 407
Schacht, J., see Zajic, G. (52) 59
Schneider, I. and Gray, L.
Rapid development of a sensory attribute in young chickens (52) 281
Schrott, A., Puel, J.-L. and Rebillard, G.
Cochlear origin of $2f_1-f_2$ distortion products assessed by using 2 types of mutant mice (52) 245
Schulte, B.A., see Munyer, P.D. (52) 369
Schwartz, I.R., see Czibulka, A. (52) 43
Sewell, W.F., see Starr, P.A. (52) 23
Shapiro, B.D., see Quirk, W.S. (52) 217
Shore, S.E., Helfert, R.H., Bledsoe, Jr., S.C., Altschuler, R.A. and Godfrey, D.A.
Descending projections to the dorsal and ventral divisions of the cochlear nucleus in guinea pig (52) 255
Smith, E.G., see Berlin, C.I. (52) 271
Sokabe, M., see Hashino, E. (52) 356
Starr, P.A. and Sewell, W.F.
Neurotransmitter release from hair cells and its blockade by glutamate-receptor antagonists (52) 23
Subramaniam, M., Campo, P. and Henderson, D.
The effect of exposure level on the development of progressive resistance to noise (52) 181

Tanaka, Y., see Hashino, E. (52) 356
Thompson, A.M., see Neely, J.G. (52) 403
Tonnaer, E.L.G.M., see Kuijpers, W. (52) 133
Trotoux, J., see Avan, P. (52) 99

Van Stokkum, I.H.M. and Melssen, W.J.
Measuring and modelling the response of auditory midbrain neurons in the grassfrog to temporally structured binaural stimuli (52) 113
Van Waes, C., see Zajic, G. (52) 59

Winbery, S., see Pou, A.M. (52) 305

Ylikoski, J., see Pirvola, U. (52) 345

Zajic, G. and Schacht, J.
Shape changes in isolated outer hair cells: measurements with attached microspheres (52) 407
Zajic, G., Nair, T.S., Ptok, M., Van Waes, C., Altschuler, R.A., Schacht, J. and Carey, T.E.
Monoclonal antibodies to inner ear antigens: I. Antigens expressed by supporting cells of the guinea pig cochlea (52) 59
Zajic, G., see Dulon, D. (52) 225
Zakarauskas, P. and Cynader, M.S.
Aural intensity for a moving source (52) 233
Zhou, N. and Parks, T.N.
Pharmacology of excitatory amino acid neurotransmission in nucleus laminaris of the chick (52) 195

Subject Index

Actin
Cochlea; Hair cells; Differentiation; Fodrin; Innervation (Pirvola, U. (52) 345)

Active mechanisms
Click evoked otoacoustic emissions; Stimulus frequency emissions; EOE threshold; Pure tone audiometry; Evaluation (Avan, P. (52) 99)

Adult
Intermediate filament proteins; Rat; Guinea pig; Inner ear (Kuijpers, W. (52) 133)

Afferents
Inner hair cell; Neurotransmitters; Glutamate; Receptors; Micoiontophoresis (Ehrenberger, K. (52) 73)

Aging
PVCN; Cochlear nucleus; Gerbil; Neuronal cell types; Microcysts (Czibulka, A. (52) 43)

AMPA
Kainic acid; Kynurenic acid; Quinoxalinediones; Auditory system (Zhou, N. (52) 195)

Amplitude modulation
Temporal modulation transfer function; Envelope; Starling; Bird (Klump, G.M. (52) 1)

Anuran
Binaural hearing; Neural modelling; Temporal selectivity; Torus semicircularis (Van Stokkum, I.H.M. (52) 113)

Audiogram
Rodent; Human; Psychophysics; Method; Threshold (Heffner, R.S. (52) 13)

Auditory
Glutamate; Neurotransmitter; Cobalt; Quantal; Synapse; Goldfish (Starr, P.A. (52) 23)

Hearing; Ear; Polarity; Transduction (Cotanche, D.A. (52) 379)

Auditory nerve
Frequency discrimination; Population response; Signal detection theory (Kim, D.O. (52) 167)

Auditory system
Kainic acid; AMPA; Kynurenic acid; Quinoxalinediones (Zhou, N. (52) 195)

Aural intensity
Moving sound; Trajectory; Source detection; Mathematical equation (Zakarauskas, P. (52) 233)

Bi-amplitude
Temporal integration; Diverted-input hypothesis; Minimum intensity level; Intensity integration (Booth, J.C. (52) 312)

Bicuculline
Inferior colliculus; GABA; Intensity-induced inhibition; Nipecotic acid; Binaural inhibition; Rate-intensity function, non-monotonic (Faingold, C.L. (52) 201)

Binaural hearing
Anuran; Neural modelling; Temporal selectivity; Torus semicircularis (Van Stokkum, I.H.M. (52) 113)

Binaural inhibition
Inferior colliculus; GABA; Intensity-induced inhibition; Bicuculline; Nipecotic acid; Rate-intensity function, non-monotonic (Faingold, C.L. (52) 201)

Bird
Temporal modulation transfer function; Amplitude modulation; Envelope; Starling (Klump, G.M. (52) 1)

Blood flow
Cochlea; Mucosa; Upper respiratory tract; Middle ear; Microsphere method; CGRP; Rabbit (Hillerdal, M. (52) 321)

Brainstem
NGF; NGF-receptor; Cochlea; Development; Immunohistochemistry (Després, G. (52) 157)

Calcium
Outer hair cells; Inner hair cells; Motility; Potassium depolarization (Dulon, D. (52) 225)

Hair cells, outer; Motility; Contractile mechanism (Pou, A.M. (52) 305)

Outer hair cells; Motility; Potassium Depolarization; Microspheres (Zajic, G. (52) 407)

Cat
Inner ear; Cochlea; Vestibular system; Proteoglycans; Immunohistochemistry; Gerbil (Munyer, P.D. (52) 369)

Cell coupling
Voltage clamp; Organ of Corti; Supporting cells; Gap junctions (Santos-Sacchi, J. (52) 89)

CGRP
Cochlea; Mucosa; Upper respiratory tract; Middle ear; Blood flow; Microsphere method; Rabbit (Hillerdal, M. (52) 321)

Chick
Hair cell; Regeneration; Kanamycin; Ototoxicity (Hashino, E. (52) 356)

Chicken
Hearing; Development; Experience; Frequency; Scaling (Schneider, I. (52) 281)

Click evoked otoacoustic emissions
Stimulus frequency emissions; Active mechanisms; EOE threshold; Pure tone audiometry; Evaluation (Avan, P. (52) 99)

Cobalt
Auditory; Glutamate; Neurotransmitter; Quantal; Synapse; Goldfish (Starr, P.A. (52) 23)

Cochlea
Monoclonal antibodies; Supporting cells (Zajic, G. (52) 59)

Endolymphatic hydrops; Hydrops; Menière's disease; Perilymph; Endolymph; Hearing (Horner, K.C. (52) 147)

NGF; NGF-receptor; Brainstem; Development; Immunohistochemistry (Després, G. (52) 157)

Mucosa; Upper respiratory tract; Middle ear; Blood flow; Microsphere method; CGRP; Rabbit (Hillerdal, M. (52) 321)

Hair cells; Differentiation; Actin; Fodrin; Innervation (Pirvola, U. (52) 345)

Inner ear; Vestibular system; Proteoglycans; Immunohistochemistry; Cat; Gerbil (Munyer, P.D. (52) 369)

Heat-shock proteins; Immunohistochemistry; Guinea pig (Neely, J.G. (52) 403)

Cochlear non-linearity
Mutant mice; Distortion product emissions (Schrott, A. (52) 245)

Cochlear nucleus
PVCN; Gerbil; Neuronal cell types; Microcysts; Aging (Czibulka, A. (52) 43)

STRF; Noise characterization (Clopton, B.M. (52) 329)

Contractile mechanism
Hair cells, outer; Calcium; Motility (Pou, A.M. (52) 305)

Correlation
Envelope; Narrow-band noise (Bernstein, L.R. (52) 189)

Derived potentials
Sinusoids; Pure tone; Guinea pig far-field compound action potentials; Subtraction (Berlin, C.I. (52) 271)

Development
NGF; NGF-receptor; Cochlea; Brainstem; Immunohistochemistry (Després, G. (52) 157)

Hearing; Chicken; Experience; Frequency; Scaling (Schneider, I. (52) 281)

Differentiation
Cochlea; Hair cells; Actin; Fodrin; Innervation (Pirvola, U. (52) 345)

Distortion product emissions
Mutant mice; Cochlear non-linearity (Schrott, A. (52) 245)

Divergent projections
Inferior colliculus; Double labeling; Fluorescent tracers; Rat (González-Hernández, T.H. (52) 17)

Diverted-input hypothesis
Temporal integration; Minimum intensity level; Intensity integration; Bi-amplitude (Booth, J.C. (52) 312)

Dorsal cochlear nucleus
Horseradish peroxidase; Ventral cochlear nucleus; Superior olivary nuclei; Inferior colliculus (Shore, S.E. (52) 255)

Double labeling
Inferior colliculus; Divergent projections; Fluorescent tracers; Rat (González-Hernández, T.H. (52) 17)

Ear
Hearing; Auditory; Polarity; Transduction (Cotanche, D.A. (52) 379)

Endolymph
Endolymphatic hydrops; Hydrops; Menière's disease; Perilymph; Hearing; Cochlea (Horner, K.C. (52) 147)

Endolymphatic hydrops
Hydrops; Menière's disease; Perilymph; Endolymph; Hearing; Cochlea (Horner, K.C. (52) 147)

Envelope
Temporal modulation transfer function; Amplitude modulation; Starling; Bird (Klump, G.M. (52) 1)

Correlation; Narrow-band noise (Bernstein, L.R. (52) 189)

EOE threshold
Click evoked otoacoustic emissions; Stimulus frequency emissions; Active mechanisms; Pure tone audiometry; Evaluation (Avan, P. (52) 99)

Evaluation
Click evoked otoacoustic emissions; Stimulus frequency emissions; Active mechanisms; EOE threshold; Pure tone audiometry (Avan, P. (52) 99)

Experience
Hearing; Chicken; Development; Frequency; Scaling (Schneider, I. (52) 281)

Exposure level
Threshold shift; 'Toughening' (Subramaniam, M. (52) 181)

Fluorescent tracers
Inferior colliculus; Divergent projections; Double labeling; Rat (González-Hernández, T.H. (52) 17)

Fodrin
Cochlea; Hair cells; Differentiation; Actin; Innervation (Pirvola, U. (52) 345)

Frequency
Hearing; Chicken; Development; Experience; Scaling (Schneider, I. (52) 281)

Frequency discrimination
Auditory nerve; Population response; Signal detection theory (Kim, D.O. (52) 167)

GABA
Inferior colliculus; Intensity-induced inhibition; Bicuculline; Nipecotic acid; Binaural inhibition; Rate-intensity function, non-monotonic (Faingold, C.L. (52) 201)

Gap junctions
Voltage clamp; Organ of Corti; Supporting cells; Cell coupling (Santos-Sacchi, J. (52) 89)

Gerbil
PVCN; Cochlear nucleus; Neuronal cell types; Microcysts; Aging (Czibulka, A. (52) 43)

Inner ear; Cochlea; Vestibular system; Proteoglycans; Immunohistochemistry; Cat (Munyer, P.D. (52) 369)

Glutamate
Auditory; Neurotransmitter; Cobalt; Quantal; Synapse; Goldfish (Starr, P.A. (52) 23)

Inner hair cell; Afferents; Neurotransmitters; Receptors; Microiontophoresis (Ehrenberger, K. (52) 73)

Goldfish
Auditory; Glutamate; Neurotransmitter; Cobalt; Quantal; Synapse (Starr, P.A. (52) 23)

Guinea pig
Isolated hair cell; Motility; Viability; Noise exposure (Décory, L. (52) 81)

Intermediate filament proteins; Rat; Inner ear; Adult (Kuijpers, W. (52) 133)

Heat-shock proteins; Cochlea; Immunohistochemistry (Neely, J.G. (52) 403)

Guinea pig far-field compound action potentials
Derived potentials; Sinusoids; Pure tone; Subtraction (Berlin, C.I. (52) 271)

Hair cell
Regeneration; Kanamycin; Ototoxicity; Chick (Hashino, E. (52) 356)

Hair cell, outer
Motility; Nonlinearity (Evans, B.N. (52) 288)

Hair cells
Cochlea; Differentiation; Actin; Fodrin; Innervation (Pirvola, U. (52) 345)

Hair cells, outer
Calcium; Motility; Contractile mechanism (Pou, A.M. (52) 305)

Hearing
Endolymphatic hydrops; Hydrops; Menière's disease; Perilymph; Endolymph; Cochlea (Horner, K.C. (52) 147)

Chicken; Development; Experience; Frequency; Scaling (Schneider, I. (52) 281)

Auditory; Ear; Polarity; Transduction (Cotanche, D.A. (52) 379)

Heat-shock proteins
Cochlea; Immunohistochemistry; Guinea pig (Neely, J.G. (52) 403)

Homeostasis
Noise; Red blood cell velocity; Stria vascularis; Vasoconstriction (Quirk, W.S. (52) 217)

Horseradish peroxidase
Ventral cochlear nucleus; Dorsal cochlear nucleus; Superior olivary nuclei; Inferior colliculus (Shore, S.E. (52) 255)

Human
Rodent; Psychophysics; Method; Audiogram; Threshold (Heffner, R.S. (52) 13)

Hydrops
Endolymphatic hydrops; Menière's disease; Perilymph; Endolymph; Hearing; Cochlea (Horner, K.C. (52) 147)

Immunohistochemistry
NGF; NGF-receptor; Cochlea; Brainstem; Development (Després, G. (52) 157)

Inner ear; Cochlea; Vestibular system; Proteoglycans; Cat; Gerbil (Munyer, P.D. (52) 369)

Heat-shock proteins; Cochlea; Guinea pig (Neely, J.G. (52) 403)

Inferior colliculus
Divergent projections; Double labeling; Fluorescent tracers; Rat (González-Hernández, T.H. (52) 17)

GABA; Intensity-induced inhibition; Bicuculline; Nipecotic acid; Binaural inhibition; Rate-intensity function, non-monotonic (Faingold, C.L. (52) 201)

Horseradish peroxidase; Ventral cochlear nucleus; Dorsal cochlear nucleus; Superior olivary nuclei (Shore, S.E. (52) 255)

Inner ear
Intermediate filament proteins; Rat; Guinea pig; Adult (Kuijpers, W. (52) 133)

Cochlea; Vestibular system; Proteoglycans; Immunohistochemistry; Cat; Gerbil (Munyer, P.D. (52) 369)

Inner hair cell
Afferents; Neurotransmitters; Glutamate; Receptors; Microiontophoresis (Ehrenberger, K. (52) 73)

Inner hair cells
Outer hair cells; Motility; Potassium depolarization; Calcium (Dulon, D. (52) 225)

Innervation
Cochlea; Hair cells; Differentiation; Actin; Fodrin (Pirvola, U. (52) 345)

Intensity-induced inhibition
Inferior colliculus; GABA; Bicuculline; Nipecotic acid; Binaural inhibition; Rate-intensity function, non-monotonic (Faingold, C.L. (52) 201)

Intensity integration
Temporal integration; Diverted-input hypothesis; Minimum intensity level; Bi-amplitude (Booth, J.C. (52) 312)

Intermediate filament proteins
Rat; Guinea pig; Inner ear; Adult (Kuijpers, W. (52) 133)

Isolated hair cell
Motility; Viability; Noise exposure; Guinea pig (Décory, L. (52) 81)

Kainic acid
AMPA; Kynurenic acid; Quinoxalinediones; Auditory system (Zhou, N. (52) 195)

Kanamycin
Hair cell; Regeneration; Ototoxicity; Chick (Hashino, E. (52) 356)

Kynurenic acid
Kainic acid; AMPA; Quinoxalinediones; Auditory system (Zhou, N. (52) 195)

Mathematical equation
Moving sound; Trajectory; Aural intensity; Source detection (Zakarauskas, P. (52) 233)

Menière's disease
Endolymphatic hydrops; Hydrops; Perilymph; Endolymph; Hearing; Cochlea (Horner, K.C. (52) 147)

Method
Rodent; Human; Psychophysics; Audiogram; Threshold (Heffner, R.S. (52) 13)

Microcysts
PVCN; Cochlear nucleus; Gerbil; Neuronal cell types; Aging (Czibulka, A. (52) 43)

Microiontophoresis
Inner hair cell; Afferents; Neurotransmitters; Glutamate; Receptors (Ehrenberger, K. (52) 73)

Microsphere method
Cochlea; Mucosa; Upper respiratory tract; Middle ear; Blood flow; CGRP; Rabbit (Hillerdal, M. (52) 321)

Microspheres
Outer hair cells; Motility; Calcium; Potassium Depolarization (Zajic, G. (52) 407)

Middle ear
Cochlea; Mucosa; Upper respiratory tract; Blood flow; Microsphere method; CGRP; Rabbit (Hillerdal, M. (52) 321)

Minimum intensity level
Temporal integration; Diverted-input hypothesis; Intensity integration; Bi-amplitude (Booth, J.C. (52) 312)

Monoclonal antibodies
Cochlea; Supporting cells (Zajic, G. (52) 59)

Motility
Isolated hair cell; Viability; Noise exposure; Guinea pig (Décory, L. (52) 81)

Outer hair cells; Inner hair cells; Potassium depolarization; Calcium (Dulon, D. (52) 225)

Hair cell, outer; Nonlinearity (Evans, B.N. (52) 288)

Hair cells, outer; Calcium; Contractile mechanism (Pou, A.M. (52) 305)

Outer hair cells; Calcium; Potassium Depolarization; Microspheres (Zajic, G. (52) 407)

Moving sound
Trajectory; Aural intensity; Source detection; Mathematical equation (Zakarauskas, P. (52) 233)

Mucosa
Cochlea; Upper respiratory tract; Middle ear; Blood flow; Microsphere method; CGRP; Rabbit (Hillerdal, M. (52) 321)

Mutant mice
Distortion product emissions; Cochlear non-linearity (Schrott, A. (52) 245)

Narrow-band noise
Correlation; Envelope (Bernstein, L.R. (52) 189)

Neural modelling
Anuran; Binaural hearing; Temporal selectivity; Torus semicircularis (Van Stokkum, I.H.M. (52) 113)

Neuronal cell types
PVCN; Cochlear nucleus; Gerbil; Microcysts; Aging (Czibulka, A. (52) 43)

Neurotransmitter
Auditory; Glutamate; Cobalt; Quantal; Synapse; Goldfish (Starr, P.A. (52) 23)

Neurotransmitters
Inner hair cell; Afferents; Glutamate; Receptors; Microiontophoresis (Ehrenberger, K. (52) 73)

NGF
NGF-receptor; Cochlea; Brainstem; Development; Immunohistochemistry (Després, G. (52) 157)

NGF-receptor
NGF; Cochlea; Brainstem; Development; Immunohistochemistry (Després, G. (52) 157)

Nipecotic acid
Inferior colliculus; GABA; Intensity-induced inhibition; Bicuculline; Binaural inhibition; Rate-intensity function, non-monotonic (Faingold, C.L. (52) 201)

Noise
Red blood cell velocity; Stria vascularis; Vasoconstriction; Homeostasis (Quirk, W.S. (52) 217)

Noise characterization
STRF; Cochlear nucleus (Clopton, B.M. (52) 329)

Noise exposure
Isolated hair cell; Motility; Viability; Guinea pig (Décory, L. (52) 81)

Nonlinearity
Hair cell, outer; Motility (Evans, B.N. (52) 288)

Organ of Corti
Voltage clamp; Supporting cells; Gap junctions; Cell coupling (Santos-Sacchi, J. (52) 89)

Ototoxicity
Hair cell; Regeneration; Kanamycin; Chick (Hashino, E. (52) 356)

Outer hair cells
Inner hair cells; Motility; Potassium depolarization; Calcium (Dulon, D. (52) 225)

Motility; Calcium; Potassium Depolarization; Microspheres (Zajic, G. (52) 407)

Perilymph
Endolymphatic hydrops; Hydrops; Menière's disease; Endolymph; Hearing; Cochlea (Horner, K.C. (52) 147)

Polarity
Hearing; Auditory; Ear; Transduction (Cotanche, D.A. (52) 379)

Population response
Frequency discrimination; Auditory nerve; Signal detection theory (Kim, D.O. (52) 167)

Potassium depolarization
Outer hair cells; Inner hair cells; Motility; Calcium (Dulon, D. (52) 225)

Outer hair cells; Motility; Calcium; Microspheres (Zajic, G. (52) 407)

Proteoglycans
Inner ear; Cochlea; Vestibular system; Immunohistochemistry; Cat; Gerbil (Munyer, P.D. (52) 369)

Psychophysics
Rodent; Human; Method; Audiogram; Threshold (Heffner, R.S. (52) 13)

Pure tone
Derived potentials; Sinusoids; Guinea pig far-field compound action potentials; Subtraction (Berlin, C.I. (52) 271)

Pure tone audiometry
Click evoked otoacoustic emissions; Stimulus frequency emissions; Active mechanisms; EOE threshold; Evaluation (Avan, P. (52) 99)

PVCN
Cochlear nucleus; Gerbil; Neuronal cell types; Microcysts; Aging (Czibulka, A. (52) 43)

Quantal
Auditory; Glutamate; Neurotransmitter; Cobalt; Synapse; Goldfish (Starr, P.A. (52) 23)

Quinoxalinediones
Kainic acid; AMPA; Kynurenic acid; Auditory system (Zhou, N. (52) 195)

Rabbit
Cochlea; Mucosa; Upper respiratory tract; Middle ear; Blood flow; Microsphere method; CGRP (Hillerdal, M. (52) 321)

Rat
Inferior colliculus; Divergent projections; Double labeling; Fluorescent tracers (González-Hernández, T.H. (52) 17)

Intermediate filament proteins; Guinea pig; Inner ear; Adult (Kuijpers, W. (52) 133)

Rate-intensity function, non-monotonic
Inferior colliculus; GABA; Intensity-induced inhibition; Bicuculline; Nipecotic acid; Binaural inhibition (Faingold, C.L. (52) 201)

Receptors
Inner hair cell; Afferents; Neurotransmitters; Glutamate; Microiontophoresis (Ehrenberger, K. (52) 73)

Red blood cell velocity
Noise; Stria vascularis; Vasoconstriction; Homeostasis (Quirk, W.S. (52) 217)

Regeneration
Hair cell; Kanamycin; Ototoxicity; Chick (Hashino, E. (52) 356)

Rodent
Human; Psychophysics; Method; Audiogram; Threshold (Heffner, R.S. (52) 13)

Scaling
Hearing; Chicken; Development; Experience; Frequency (Schneider, I. (52) 281)

Signal detection theory
Frequency discrimination; Auditory nerve; Population response (Kim, D.O. (52) 167)

Sinusoids
Derived potentials; Pure tone; Guinea pig far-field compound action potentials; Subtraction (Berlin, C.I. (52) 271)

Source detection
Moving sound; Trajectory; Aural intensity; Mathematical equation (Zakarauskas, P. (52) 233)

Starling
Temporal modulation transfer function; Amplitude modulation; Envelope; Bird (Klump, G.M. (52) 1)

Stimulus frequency emissions
Click evoked otoacoustic emissions; Active mechanisms; EOE threshold; Pure tone audiometry; Evaluation (Avan, P. (52) 99)

STRF
Cochlear nucleus; Noise characterization (Clopton, B.M. (52) 329)

Stria vascularis
Noise; Red blood cell velocity; Vasoconstriction; Homeostasis (Quirk, W.S. (52) 217)

Subtraction
Derived potentials; Sinusoids; Pure tone; Guinea pig far-field compound action potentials (Berlin, C.I. (52) 271)

Superior olivary nuclei
Horseradish peroxidase; Ventral cochlear nucleus; Dorsal cochlear nucleus; Inferior colliculus (Shore, S.E. (52) 255)

Supporting cells
Cochlea; Monoclonal antibodies (Zajic, G. (52) 59)

Voltage clamp; Organ of Corti; Gap junctions; Cell coupling (Santos-Sacchi, J. (52) 89)

Synapse
Auditory; Glutamate; Neurotransmitter; Cobalt; Quantal; Goldfish (Starr, P.A. (52) 23)

Temporal integration
Diverted-input hypothesis; Minimum intensity level; Intensity integration; Bi-amplitude (Booth, J.C. (52) 312)

Temporal modulation transfer function
Amplitude modulation; Envelope; Starling; Bird (Klump, G.M. (52) 1)

Temporal selectivity
Anuran; Binaural hearing; Neural modelling; Torus semicircularis (Van Stokkum, I.H.M. (52) 113)

Threshold
Rodent; Human; Psychophysics; Method; Audiogram (Heffner, R.S. (52) 13)

Threshold shift
Exposure level; 'Toughening' (Subramaniam, M. (52) 181)

Torus semicircularis
Anuran; Binaural hearing; Neural modelling; Temporal selectivity (Van Stokkum, I.H.M. (52) 113)

'Toughening'
Threshold shift; Exposure level (Subramaniam, M. (52) 181)

Trajectory
Moving sound; Aural intensity; Source detection; Mathematical equation (Zakarauskas, P. (52) 233)

Transduction
Hearing; Auditory; Ear; Polarity (Cotanche, D.A. (52) 379)

Upper respiratory tract
Cochlea; Mucosa; Middle ear; Blood flow; Microsphere method; CGRP; Rabbit (Hillerdal, M. (52) 321)

Vasoconstriction
Noise; Red blood cell velocity; Stria vascularis; Homeostasis (Quirk, W.S. (52) 217)

Ventral cochlear nucleus
Horseradish peroxidase; Dorsal cochlear nucleus; Superior olivary nuclei; Inferior colliculus (Shore, S.E. (52) 255)

Vestibular system
Inner ear; Cochlea; Proteoglycans; Immunohistochemistry; Cat; Gerbil (Munyer, P.D. (52) 369)

Viability
Isolated hair cell; Motility; Noise exposure; Guinea pig (Décory, L. (52) 81)

Voltage clamp
Organ of Corti; Supporting cells; Gap junctions; Cell coupling (Santos-Sacchi, J. (52) 89)